Supplementary	tables	and f	figur	es
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Twelve-year clinical trajectories	s of multimorbidity	in a	population	of o	lder
adults					

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7 Supplementary tables

15 Supplementary figures

Supplementary table 1. Sample characteristics (weighted means and proportions) by clusters of multimorbidity over time.

Abbreviations: MMSE = Mini Mental State Examination. Weighted means and proportions have been obtained by the membership matrix.

			Base N =	eline 2931					6 y N =	ears 1716					12 yo N = 1	ears 016		
	Psych. and respiratory diseases	Heart diseases	Eye diseases and cancer	Cognitive and sensory impairment	Respiratory and MSK diseases	Unspecific group	Heart and vascular diseases	Heart diseases and cognitive impairment	Neuropsychiatric and respiratory diseases	Eye diseases	MSK, respiratory, and immune diseases	Unspecific group	Vascular diseases	Cardiometabolic diseases	Respiratory diseases	Neuropsychiatric diseases	Eye and MSK diseases	Unspecific group
Number (n)	159	272	313	309	460	1418	101	170	201	235	270	740	63	112	120	122	200	400
Age (mean)	73.3 (73.0- 73.7)	82.3 (81. 9- 82.6	83.2 (82.9- 83.5)	88.2 (87.9- 88.5)	73.9 (73. 5- 74.3	71.8 (71.5- 72.1)	82.0 (81. 6- 82.4	85.5 (85. 1- 85.9	80.8 (80.3- 81.3)	84.6 (84. 2- 85)	75.5 (75. 1- 75.9	74.0 (73.3- 74.4)	84.0 (83.5- 84.5)	84.0 (83.6- 84.5)	79.8 (79.4- 80.3)	87.4 (86.9- 87.8)	81.8 (81.4- 82.3)	76.8 (76. 4- 77.1
Sex (female, %)	74.2 (66.9- 80.3)	59.2 (53. 3- 64.9	72.5 (37.3- 77.2)	76.9 (71.9- 81.2)	74.4 (70. 2- 78.1	61.0 (58.5- 63.5)	51.0 (41. 4- 60.6	57.3 (49. 8- 64.5	72.9 (66.4- 78.6)	76.6 (70. 8- 81.6	72.4 (66. 8- 77.4	59.3 (55.7- 62.8)	73.3 (61.3- 81.7)	44.2 (35.4- 53.5)	77.5 (69.2- 84.0)	70.6 (62.0- 77.9)	77.6 (71.3- 82.8)	58.7 (53. 8- 63.4
Education							19.1	19.6	15.5	20.5	8.6	10.4	21.6	11.7	8.9	20.0	8.4	5.4
Elementary (%)	16.9 (11.9- 23.5)	25.1 (20. 3- 30.6	21.8 (17.5- 26.7)	34.8 (29.6- 40.5)	19.3 (16. 0- 23.2	14.4 (12.7- 16.3)	(12. 6- 27.8	(14. 3- 26.3	(11.2-21.2)	(15. 8- 26.1	(5.8- 12.5)	(8.4- 12.8)	(13.2-33.2)	(6.9- 18.9)	(5.0- 15.3)	(13.9- 27.9)	(5.3- 13.1)	(3.6- 8.0)
Secondary (%)	47.6 (33.9- 55.3)) 56.1 (50. 1- 61.9	56.5 (50.9- 61.9)	47.4 (41.8- 53.2)) 49.5 (45. 0- 54.1	50.1 (47.5- 52.7)	51.4 (41. 8- 61.0	50.9 (43. 4- 58.3	50.3 (43.5- 57.2)	53.2 (46. 8- 59.5	49.4 (43. 5- 55.3	48.0 (44.4- 51.6)	52.0 (40.0- 63.9)	47.2 (38.2- 56.4)	40.9 (32.5- 49.8)	52.7 (43.9- 61.3)	49.0 (42.2- 55.9)	46.4 (41. 5- 51.3
University (%)	35.5 (28.5- 43.2)) 18.8 (14. 6-	21.8 (27.6- 26.7)	17.7 (13.8- 22.5)) 31.1 (27. 1-	35.5 (33.0- 38.0)) 29.5 (21. 5-) 29.5 (23. 1-	34.1 (27.9- 41.0)) 26.3 (21. 1-	42.0 (36. 3-	41.6 (38.1- 45.2)	26.4 (17.1- 38.4)	41.1 (32.4- 50.4)	50.2 (41.4- 59.0)	27.3 (20.2- 35.8)	42.6 (35.9- 49.5)	48.3 (43. 4-

		23.9			35.5		39.0	36.8		32.3	48.0							53.2
)))))))
		,			,		_ ′	,		,	,							,
Number of diseases (mean)	5.7	7.7	6.0	5.5	4.7	3.2	11.5	10.9	8.9	9.3	7.8	4.8	14.9	13.3	12.2	15.0	10.7	6.6
	(5.6-	(7.6-	(6.0-	(5.5-	(4.6-	(3.2-	(11.	(10.	(8.8-	(9.1-	(7.7-	(4.7-	(14.6-	(13.1-	(12.0-	(14.7-	(10.6-	(5.5-
	5.8)	7.8)	6.1)	5.6)	4.7)	3.3)	4-	7-	9.1)	9.4)	7.9)	4.9)	15.1)	13.5)	12.5)	15.2)	10.9)	6.7)
							11.7	11.0										
))										
Number of drugs (mean)	6.2	7.7	5.1	6.1	5.3	2.9	8.3	8.8	7.8	6.6	6.3	3.8	9.6	8.7	8.8	9.4	6.4	4.5
	(6.1-	(7.6-	(4.9-	(5.9-	(5.2-	(2.8-	(8.1-	(8.6-	(7.6-	(6.4-	(6.2-	(3.7-	(9.3-	(8.4-	(8.5-	(9.2-	(6.2-	(4.3-
	6.4)	7.8)	5.2)	6.2)	5.4)	2.9)	8.5)	9.0)	8.0)	6.8)	6.5)	3.9)	9.9)	9.0)	9.0)	9.7)	6.7)	4.6)
Walking speed <0.8 m/s (%)	35.7	63.1	51.0	83.8	31.2	16.0	51.2	67.7	54.4	59.5	30.3	15.5	63.9	55.9	39.3	79.6	33.9	15.0
	(28.5-	(57.	(45.3-	(12.1-	(27.	(14.2-	(51.	(60.	(47.5-	(53.	(25.	(13.1-	(51.4-	(46.6-	(31.1-	(71.6-	(27.7-	(11.
	43.5)	1-	56.5)	21.3)	1-	18.0)	5-	2-	61.2)	1-	2-	18.3)	74.7)	64.7)	48.3)	85.8)	40.8)	9-
		68.7			35.6		60.8	74.3		65.7	36.1							18.9
)))))
Disability score ≥1 (%)	32.5	49.9	38.4	86.1	18.4	8.8	23.0	24.3	22.7	17.3	7.3	2.8	9.7	5.7	4.7	11.1	2.2	1.1
	(17.9-	(30.	(24.0-	(77.9-	(9.0-	(3.5-	(7.3-	(11.	(11.3-	(7.1-	(1.4-	(0.5-	(2.4-	(0.3-	(0.3-	(2.4-	(0.0-	(0.0-
	31.6)	1-	34.2)	86.6)	15.0	5.7)	20.4	5-	21.8)	15.1	5.7)	2.0)	15.3)	5.8)	5.4)	10.7)	2.1)	1.0)
		41.8))	22.9)								
MMSE (mean)	27.7	27.6	27.7	16.6	28.6	28.8	26.7	24.3	24.7	26.4	28.2	28.2	26.5	26.3	27.2	22.1	27.9	28.1
	(27.5-	(27.	(27.6-	(16.3-	(28.	(28.7-	(26.	(24.	(24.4-	(26.	(28.	(28.1-	(26.2-	(26.0-	(27.0-	(21.6-	(27.7-	(27.
	27.9)	5-	27.8)	17.0)	`5-	28.8)	5-	0-	25.1)	1-	1-	28.3)	26.8)	26.7)	27.5)	22.5)	28.1)	`9-
	ĺ	27.7	,	,	28.7	,	26.9	24.7	,	26.6	28.3	,	ĺ	,	,	,	,	28.3
)))))))
Hypertension (%)	65.4	73.4	80.6	42.4	57.8	84.3	93.7	91.1	75.2	90.3	80.2	90.2	94.1	96.3	81.5	96.6	89.7	89.7
•	(57.7-	(67.	(75.8-	(37.0-	(53.	(82.3-	(87.	(85.	(68.8-	(85.	(75	(87.8-	(85.4-	(81.0-	(73.6-	(91.8-	(84.7-	(86.
	72.3)	9-	84.6)	48.0)	3-	86.1)	2-	8-	80.6)	9-	84.5	92.1)	97.7)	98.6)	87.5)	98.7)	93.2)	3-
		78.3			62.3		97.0	94.5		93.5)							92.3
))))))
Diabetes (%)	6.4	30.6	11.5	4.9	6.7	8.2	31.1	24.6	9.4	12.3	9.6	13.4	24.6	46.7	12.7	20.2	10.1	12.1
	(3.5-	(25.	(8.4-	(3.0-	(4.8-	(6.9-	(22.	(18.	(6.1-	(8.7-	(6.6-	(11.1-	(15.6-	(37.7-	(7.8-	(14.0-	(6.6-	(9.3-
	11.3)	4-	15.5)	7.9)	9.4)	9.8)	9-	7-	14.3)	17.1	13.7	16.0)	36.4)	55.9)	19.8)	28.1)	15.1)	15.7
		36.3					40.7	31.6)))
)))										
Dyslipidemia (%)	48.1	40.9	44.8	12.9	42.0	64.1	59.7	59.4	58.7	56.8	57.9	77.8	69.9	76.8	66.8	60.9	78.0	84.8
	(40.5-	(35.	(39.4-	(9.6-	(37.	(61.5-	(50.	(51.	(51.8-	(50.	(52.	(74.7-	(57.7-	(68.1-	(58.0-	(52.1-	(71.8-	(81.
	55.9)	2-	50.3)	17.1)	5-	66.5)	0-	8-	65.3)	4-	0-	80.6)	79.8)	83.6)	74.6)	69.1)	83.2)	0-
		46.8			46.5		68.8	66.5		62.9	63.7							88.0
))))))

Obesity (%)	8.3	16.0	7.3	0.7	17.8	15.4	16.6	16.4	13.4	13.3	24.2	24.7	23.6	29.7	26.1	26.4	18.9	27.2
	(5.0-	(12.	(4.9-	(0.2-	(14.	(13.7-	(10.	(11.	(9.4-	(9.6-	(19.	(21.7-	(14.8-	(22.0-	(19.1-	(19.4-	(14.1-	(23.
	13.7)	2-	10.8)	2.4)	6-	17.4)	6-	6-	18.8)	18.3	5-	27.9)	35.4)	38.7)	34.6)	34.9)	24.9)	0-
		20.9			21.6		25.1	22.8)	29.7							31.7
))))))

Supplementary table 2. Additional clinical and drug-related* parameters used in SNAC-

K for specific chronic conditions.

*The ATC codes corresponding to each drug are shown in brackets. Only those drugs that can be unequivocally linked to chronic conditions were considered. That is, drugs with more than one indication were excluded from the list. The selection of ATC codes was based on a literature review and the clinical judgement of physicians.

NOTE: The criteria presented in this table were used in addition to the diagnoses assigned in SNAC-K. For example, use of dopaminergic agents was considered to indicate presence of Parkinson syndrome, even in the absence of other diagnostic information.

Condition	Clinical and drug-related parameters
Anemia	Hemoglobin <13 g/dl in men and <12 g/dl in women Use of iron preparations (B03A) or other antianemic preparations (B03XA)
Asthma	Use of leukotriene receptor antagonists (R03DC) or antiallergic agents, excl. corticosteroids (R03BC)
Atrial fibrillation	Discrete P wave undetectable and irregular ventricular rate (12-lead electrocardiogram)
Autoimmune diseases	Use of antipsoriatics (D05)
Bradycardias and conduction diseases	Presence of a cardiac pacemaker (12-lead electrocardiogram)
Chronic infectious diseases	Use of drugs for treatment of tuberculosis excluding cycloserine, rifampicine, rifamicyne and hydrazides (J04A excl. J04AB01, J04AB02, J04AB03 and J04AC)
Chronic kidney diseases	Glomerular filtration rate <60 ml/min/1.73m2 (assessed using the CKD-EPI equation)
Chronic pancreas, biliary tract and gallbladder diseases	Use of multienzymes (lipase, protease etc.) (A09AA02)
Colitis and related diseases	Use of drugs for constipation (A06A)
COPD, Emphysema, Chronic Bronchitis	Use of anticholinergics (R03BB)
Dementia	Diagnostic and Statistical Manual of Mental Disorders, Third Edition, Revised (assessed by two different physicians, and a third one in case of disagreement)

	Use of anticholinesterases (N06DA) or memantine (N06DX01)
Diabetes	Glycated hemoglobin (A1C) ≥6.5% Use of antidiabetics (A10)
Esophagus, stomach and duodenum diseases	Use of other drugs for peptic ulcer and gastro-oesophageal reflux disease (A02BX)
Glaucoma	Use of beta blocking agents (S01ED)
Hearing impairment	Unable to hear the interviewer's voice at a normal volume (assessed by a nurse)
Hypercholesterolemia	Serum total cholesterol ≥6.22 mmol/L
Hypertension	Blood pressure ≥140/90 mmHg
Inflammatory arthropathies	Use of gold preparations (M01CB)
Inflammatory bowel diseases	Use of intestinal antiinflammatory agents (A07E)
Ischemic heart disease	Use of organic nitrates (C01DA) or ranolazine (C01EB18)
Migraine and facial pain syndromes	Use of antimigraine preparations (N02C)
Obesity	Body Mass Index ≥30 kg/m ²
Osteoporosis	Use of bisphosphonates (M05BA), bisphosphonate combinations (M05BB), strontium ranelate (M05BX03) or strontium ranelate and colecalciferol (M05BX53)
Other psychiatric and behavioral diseases	Use of drugs for alcohol dependence (N07BB)
Parkinson and parkinsonism	Use of dopa and dopa derivatives (N04BA), dopamine agonists (N04BC), or other dopaminergic agents (N04BX)
Peripheral vascular disease	Use of cilostazol (B01AC23)
Prostate diseases	Use of drugs for benign prostatic hypertrophy excluding testosterone-5-alpha reductase inhibitors (G04C excl. G04CB)
Thyroid diseases	Use of thyroid hormones (H03AA) or antithyroid preparations (H03B)
Visual impairment	Unable to see the physician at a close distance with or without aid (assessed by a nurse)

1. Supplementary table 3. Descriptors of ICD-10 codes included and excluded in each chronic disease category.

NOTE: When all sub-codes within a given ICD-10 code were classified as chronic, the highest possible level of aggregation of the hierarchy was included in the list (e.g. three-digit code for asthma (J45), one-digit code for malignant neoplasms (C), etc.

ALLER	code for asthma (J45), one-digit code for malignant neoplasms (C), etc.
	d ICD-10 codes and labels
J301	Allergic rhinitis due to pollen
J302	Other seasonal allergic rhinitis
J303	Other allergic rhinitis
J304	Allergic rhinitis, unspecified
J450	Predominantly allergic asthma
K522	Allergic and dietetic gastroenteritis and colitis
L20	Atopic dermatitis
L23	Allergic contact dermatitis
L500	Allergic urticaria
Z516	Desensitization to allergens
ANEM	
Include	d ICD-10 codes and labels
D50	Iron deficiency anaemia
D51	Vitamin B12 deficiency anaemia
D52	Folate deficiency anaemia
D53	Other nutritional anaemias
D55	Anaemia due to enzyme disorders
D56	Thalassaemia
D57	Sickle-cell disorders
D58	Other hereditary haemolytic anaemias
D59	Acquired haemolytic anaemia
D60	Acquired pure red cell aplasia [erythroblastopenia]
D61	Other aplastic anaemias
D63	Anaemia in chronic diseases classified elsewhere
D64	Other anaemias
	ed ICD-10 codes and labels
D563	Thalassaemia trait
D590	Drug-induced autoimmune haemolytic anaemia
D592	Drug-induced nonautoimmune haemolytic anaemia
D593	Haemolytic-uraemic syndrome
D596	Haemoglobinuria due to haemolysis from other external causes
D601	Transient acquired pure red cell aplasia
D611	Drug-induced aplastic anaemia
D612	Aplastic anaemia due to other external agents
D642	Secondary sideroblastic anaemia due to drugs and toxins

ASTHM	14					
	d ICD-10 codes and labels					
J45	Asthma					
	L FIBRILLATION					
	d ICD-10 codes and labels					
I48	Atrial fibrillation and flutter					
_	MMUNE DISEASES					
	d ICD-10 codes and labels					
I731	Thromboangiitis obliterans [Buerger]					
L10	Pemphigus					
L12	Pemphigoid					
L40	Psoriasis					
L41	Parapsoriasis					
L93	Lupus erythematosus					
L94	Other localized connective tissue disorders					
L95	Vasculitis limited to skin, not elsewhere classified					
M30	Polyarteritis nodosa and related conditions					
M31	Other necrotizing vasculopathies					
M32	Systemic lupus erythematosus					
M33	Dermatopolymyositis					
M34	Systemic sclerosis					
M35	Other systemic involvement of connective tissue					
M36	Systemic disorders of connective tissue in diseases classified elsewhere					
Exclude	ed ICD-10 codes and labels					
L105	Drug-induced pemphigus					
M320	Drug-induced systemic lupus erythematosus					
M342	Systemic sclerosis induced by drugs and chemicals					
M357	Hypermobility syndrome					
M358	Other specified systemic involvement of connective tissue					
M359	Systemic involvement of connective tissue, unspecified					
M360	Dermato(poly)myositis in neoplastic disease					
M361	Arthropathy in neoplastic disease					
M362	Haemophilic arthropathy					
M363	Arthropathy in other blood disorders					
BLIND	NESS, VISUAL IMPAIRMENT					
Include	d ICD-10 codes and labels					
H54	Visual impairment including blindness (binocular or monocular)					
Z442	Fitting and adjustment of artificial eye					
Z970	Presence of artificial eye					
Exclude	ed ICD-10 codes and labels					
H543	Mild or no visual impairment, binocular					
BLOOI	BLOOD AND BLOOD FORMING ORGAN DISEASES					
Include	d ICD-10 codes and labels					

D66	Hereditary factor VIII deficiency
D67	Hereditary factor IX deficiency
D68	Other coagulation defects
D69	Purpura and other haemorrhagic conditions
D71	Functional disorders of polymorphonuclear neutrophils
D720	Genetic anomalies of leukocytes
D730	Hyposplenism
D731	Hypersplenism
D732	Chronic congestive splenomegaly
D74	Methaemoglobinaemia
D750	Familial erythrocytosis
D761	Haemophagocytic lymphohistiocytosis
D763	Other histiocytosis syndromes
D77	Other disorders of blood and blood-forming organs in diseases classified elsewhere
D80	Immunodeficiency with predominantly antibody defects
D81	Combined immunodeficiencies
D82	Immunodeficiency associated with other major defects
D83	Common variable immunodeficiency
D84	Other immunodeficiencies
D86	Sarcoidosis
D89	Other disorders involving the immune mechanism, not elsewhere classified
Exclude	ed ICD-10 codes and labels
D683	Haemorrhagic disorder due to circulating anticoagulants
D684	Acquired coagulation factor deficiency
D695	Secondary thrombocytopenia
D748	Other methaemoglobinaemias
D807	Transient hypogammaglobulinaemia of infancy
D891	Cryoglobulinaemia
D893	Immune reconstitution syndrome
BRADY	CARDIAS AND CONDUCTION DISEASES
Include	d ICD-10 codes and labels
I441	Atrioventricular block, second degree
I442	Atrioventricular block, complete
I443	Other and unspecified atrioventricular block
I453	Trifascicular block
I455	Other specified heart block
Z950	Presence of cardiac pacemaker
CARDI	AC VALVE DISEASES
	d ICD-10 codes and labels
I05	Rheumatic mitral valve diseases
I06	Rheumatic aortic valve diseases
I07	Rheumatic tricuspid valve diseases
I08	Multiple valve diseases

I091	Rheumatic diseases of endocardium, valve unspecified
I098	Other specified rheumatic heart diseases
I34	Nonrheumatic mitral valve disorders
I35	Nonrheumatic aortic valve disorders
I36	Nonrheumatic tricuspid valve disorders
I37	Pulmonary valve disorders
I38	Endocarditis, valve unspecified
I390	Mitral valve disorders in diseases classified elsewhere
I391	Aortic valve disorders in diseases classified elsewhere
I392	Tricuspid valve disorders in diseases classified elsewhere
I393	Pulmonary valve disorders in diseases classified elsewhere
I394	Multiple valve disorders in diseases classified elsewhere
Q22	Congenital malformations of pulmonary and tricuspid valves
Q23	Congenital malformations of aortic and mitral valves
Z952	Presence of prosthetic heart valve
Z953	Presence of xenogenic heart valve
Z954	Presence of other heart-valve replacement
	RACT AND OTHER LENS DISEASES
	d ICD-10 codes and labels
H25	Senile cataract
H26	Other cataract
H27	Other disorders of lens
H28	Cataract and other disorders of lens in diseases classified elsewhere
Q12	Congenital lens malformations
Z961	Presence of intraocular lens
	BROVASCULAR DISEASE
	d ICD-10 codes and labels
G45	Transient cerebral ischaemic attacks and related syndromes
G46	Vascular syndromes of brain in cerebrovascular diseases
I60	Subarachnoid haemorrhage
I61	Intracerebral haemorrhage
I62	Other nontraumatic intracranial haemorrhage
I63	Cerebral infarction
I64	Stroke, not specified as haemorrhage or infarction
I67	Other cerebrovascular diseases
I69	Sequelae of cerebrovascular disease
	MOSOMAL ABNORMALITIES
	d ICD-10 codes and labels
Q90	Down syndrome
Q91	Edwards syndrome and Patau syndrome
Q92	Other trisomies and partial trisomies of the autosomes, not elsewhere classified
Q93	Monosomies and deletions from the autosomes, not elsewhere classified
Q95	Balanced rearrangements and structural markers, not elsewhere classified

Q96	Turner syndrome						
Q97 (Other sex chromosome abnormalities, female phenotype, not elsewhere classified						
	Other sex chromosome abnormalities, male phenotype, not elsewhere classified						
	Other chromosome abnormalities, not elsewhere classified						
	IC INFECTIOUS DISEASES						
Included	ICD-10 codes and labels						
A15	Respiratory tuberculosis, bacteriologically and histologically confirmed						
	Respiratory tuberculosis, not confirmed bacteriologically or histologically						
A17	Tuberculosis of nervous system						
A18 '	Tuberculosis of other organs						
A19	Miliary tuberculosis						
A30	Leprosy [Hansen disease]						
A31	Infection due to other mycobacteria						
A50	Congenital syphilis						
A52	Late syphilis						
A53	Other and unspecified syphilis						
A65	Nonvenereal syphilis						
A66	Yaws						
A67	Pinta [carate]						
A692	Lyme disease						
A81	Atypical virus infections of central nervous system						
B20	Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases						
B21	Human immunodeficiency virus [HIV] disease resulting in malignant neoplasms						
B22	Human immunodeficiency virus [HIV] disease resulting in other specified diseases						
B23	Human immunodeficiency virus [HIV] disease resulting in other conditions						
B24	Unspecified human immunodeficiency virus [HIV] disease						
B381	Chronic pulmonary coccidioidomycosis						
B391	Chronic pulmonary histoplasmosis capsulati						
B401	Chronic pulmonary blastomycosis						
B572	Chagas disease (chronic) with heart involvement						
B573	Chagas disease (chronic) with digestive system involvement						
B574 (Chagas disease (chronic) with nervous system involvement						
B575 (Chagas disease (chronic) with other organ involvement						
B65 S	Schistosomiasis [bilharziasis]						
B92 S	Sequelae of leprosy						
B94 S	Sequelae of other and unspecified infectious and parasitic diseases						
J65	Pneumoconiosis associated with tuberculosis						
M863	Chronic multifocal osteomyelitis						
M864 (Chronic osteomyelitis with draining sinus						
	Other chronic haematogenous osteomyelitis						
M866	Other chronic osteomyelitis						
CHRONI	CHRONIC KIDNEY DISEASES						
Included	ICD-10 codes and labels						

I120	Hypertensive renal disease with renal failure
I130	Hypertensive heart and renal disease with (congestive) heart failure
I131	Hypertensive heart and renal disease with renal failure
I132	Hypertensive heart and renal disease with both (congestive) heart failure and renal failure
I139	Hypertensive heart and renal disease, unspecified
N01	Rapidly progressive nephritic syndrome
N03	Chronic nephritic syndrome
N04	Nephrotic syndrome
N05	Unspecified nephritic syndrome
N07	Hereditary nephropathy, not elsewhere classified
N08	Glomerular disorders in diseases classified elsewhere
N11	Chronic tubulo-interstitial nephritis
N183	Chronic kidney disease, stage 3
N184	Chronic kidney disease, stage 4
N185	Chronic kidney disease, stage 5
N189	Chronic kidney disease, unspecified
Q60	Renal agenesis and other reduction defects of kidney
Q611	Polycystic kidney, autosomal recessive
Q612	Polycystic kidney, autosomal dominant
Q613	Polycystic kidney, unspecified
Q614	Renal dysplasia
Q615	Medullary cystic kidney
Q618	Other cystic kidney diseases
Q619	Cystic kidney disease, unspecified
Z905	Acquired absence of kidney
Z940	Kidney transplant status
CHRO	NIC LIVER DISEASES
Include	d ICD-10 codes and labels
B18	Chronic viral hepatitis
K70	Alcoholic liver disease
K713	Toxic liver disease with chronic persistent hepatitis
K714	Toxic liver disease with chronic lobular hepatitis
K715	Toxic liver disease with chronic active hepatitis
K717	Toxic liver disease with fibrosis and cirrhosis of liver
K721	Chronic hepatic failure
K73	Chronic hepatitis, not elsewhere classified
K74	Fibrosis and cirrhosis of liver
K753	Granulomatous hepatitis, not elsewhere classified
K754	Autoimmune hepatitis
K758	Other specified inflammatory liver diseases
K761	Chronic passive congestion of liver
K766	Portal hypertension
K767	Hepatorenal syndrome

K778	Liver disorders in other diseases classified elsewhere
Q446	Cystic disease of liver
Z944	Liver transplant status
	ed ICD-10 codes and labels
K700	Alcoholic fatty liver
K701	Alcoholic hepatitis
CHRO	NIC PANCREAS, BILIARY TRACT AND GALLBLADDER DISEASES
	d ICD-10 codes and labels
K800	Calculus of gallbladder with acute cholecystitis
K801	Calculus of gallbladder with other cholecystitis
K802	Calculus of gallbladder without cholecystitis
K808	Other cholelithiasis
K811	Chronic cholecystitis
K86	Other diseases of pancreas
Q440	Agenesis, aplasia and hypoplasia of gallbladder
Q441	Other congenital malformations of gallbladder
Q442	Atresia of bile ducts
Q443	Congenital stenosis and stricture of bile ducts
Q444	Choledochal cyst
Q445	Other congenital malformations of bile ducts
Q450	Agenesis, aplasia and hypoplasia of pancreas
Exclude	ed ICD-10 codes and labels
K862	Cyst of pancreas
K863	Pseudocyst of pancreas
K869	Disease of pancreas, unspecified
CHRO	NIC ULCER OF THE SKIN
Include	d ICD-10 codes and labels
I830	Varicose veins of lower extremities with ulcer
I832	Varicose veins of lower extremities with both ulcer and inflammation
L89	Decubitus ulcer and pressure area
L97	Ulcer of lower limb, not elsewhere classified
L984	Chronic ulcer of skin, not elsewhere classified
COLIT	IS AND RELATED DISEASES
Include	d ICD-10 codes and labels
K520	Gastroenteritis and colitis due to radiation
K528	Other specified noninfective gastroenteritis and colitis
K551	Chronic vascular disorders of intestine
K552	Angiodysplasia of colon
K572	Diverticular disease of large intestine with perforation and abscess
K573	Diverticular disease of large intestine without perforation or abscess
K574	Diverticular disease of both small and large intestine with perforation and abscess
K575	Diverticular disease of both small and large intestine without perforation or abscess
K578	Diverticular disease of intestine, part unspecified, with perforation and abscess

K579	Diverticular disease of intestine, part unspecified, without perforation or abscess	
K58	Irritable bowel syndrome	
K590	Constipation	
K592	Neurogenic bowel, not elsewhere classified	
K62	Other diseases of anus and rectum	
K634	Enteroptosis	
K64	Haemorrhoids and perianal venous thrombosis	
Exclude	ed ICD-10 codes and labels	
K620	Anal polyp	
K621	Rectal polyp	
K625	Haemorrhage of anus and rectum	
K626	Ulcer of anus and rectum	
K645	Perianal venous thrombosis	
COPD,	EMPHYSEMA, CHRONIC BRONCHITIS	
	d ICD-10 codes and labels	
J41	Simple and mucopurulent chronic bronchitis	
J42	Unspecified chronic bronchitis	
J43	Emphysema	
J44	Other chronic obstructive pulmonary disease	
J47	Bronchiectasis	
DEAFN	ESS, HEARING IMPAIRMENT	
Include	d ICD-10 codes and labels	
H80	Otosclerosis	
H90	Conductive and sensorineural hearing loss	
H911	Presbycusis	
H913	Deaf mutism, not elsewhere classified	
H919	Hearing loss, unspecified	
Q16	Congenital malformations of ear causing impairment of hearing	
Z453	Adjustment and management of implanted hearing device	
Z461	Fitting and adjustment of hearing aid	
Z962	Presence of otological and audiological implants	
Z974	Presence of external hearing-aid	
DEME	NTIA	
Include	d ICD-10 codes and labels	
F00	Dementia in Alzheimer disease	
F01	Vascular dementia	
F02	Dementia in other diseases classified elsewhere	
F03	Unspecified dementia	
F051	Delirium superimposed on dementia	
G30	Alzheimer disease	
G31	Other degenerative diseases of nervous system, not elsewhere classified	
DEPRE	DEPRESSION AND MOOD DISEASES	
Include	Included ICD-10 codes and labels	

F30	Manic episode
F31	Bipolar affective disorder
F32	Depressive episode
F33	Recurrent depressive disorder
F34	Persistent mood [affective] disorders
F38	Other mood [affective] disorders
F39	Unspecified mood [affective] disorder
F412	Mixed anxiety and depressive disorder
DIABE'	ΓES
Include	d ICD-10 codes and labels
E10	Insulin-dependent diabetes mellitus
E11	Non-insulin-dependent diabetes mellitus
E13	Other specified diabetes mellitus
E14	Unspecified diabetes mellitus
E891	Postprocedural hypoinsulinaemia
DORSC	PATHIES
Include	d ICD-10 codes and labels
M40	Kyphosis and lordosis
M41	Scoliosis
M42	Spinal osteochondrosis
M43	Other deforming dorsopathies
M47	Spondylosis
M48	Other spondylopathies
M49	Spondylopathies in diseases classified elsewhere
M50	Cervical disc disorders
M51	Other intervertebral disc disorders
M53	Other dorsopathies, not elsewhere classified
Q675	Congenital deformity of spine
Q761	Klippel-Feil syndrome
Q764	Other congenital malformations of spine, not associated with scoliosis
DYSLII	PIDEMIA
Include	d ICD-10 codes and labels
E78	Disorders of lipoprotein metabolism and other lipidaemias
EAR, N	OSE, THROAT DISEASES
Include	d ICD-10 codes and labels
H604	Cholesteatoma of external ear
H661	Chronic tubotympanic suppurative otitis media
H662	Chronic atticoantral suppurative otitis media
H663	Other chronic suppurative otitis media
H701	Chronic mastoiditis
H71	Cholesteatoma of middle ear
H731	Chronic myringitis
H741	Adhesive middle ear disease

H810	MÚniPre disease
H831	Labyrinthine fistula
H832	Labyrinthine dysfunction
H95	Postprocedural disorders of ear and mastoid process, not elsewhere classified
J300	Vasomotor rhinitis
J31	Chronic rhinitis, nasopharyngitis and pharyngitis
J32	Chronic sinusitis
J33	Nasal polyp
J341	Cyst and mucocele of nose and nasal sinus
J342	Deviated nasal septum
J343	Hypertrophy of nasal turbinates
J35	Chronic diseases of tonsils and adenoids
J37	Chronic laryngitis and laryngotracheitis
J380	Paralysis of vocal cords and larynx
J386	Stenosis of larynx
K051	Chronic gingivitis
K053	Chronic periodontitis
K07	Dentofacial anomalies [including malocclusion]
K110	Atrophy of salivary gland
K117	Disturbances of salivary secretion
Q30	Congenital malformations of nose
Q31	Congenital malformations of larynx
Q32	Congenital malformations of trachea and bronchus
Q35	Cleft palate
Q36	Cleft lip
Q37	Cleft palate with cleft lip
Q38	Other congenital malformations of tongue, mouth and pharynx
EPILEI	PSY
Include	d ICD-10 codes and labels
G40	Epilepsy
Exclude	d ICD-10 codes and labels
G405	Special epileptic syndromes
	AGUS, STOMACH AND DUODENUM DISEASES
Include	d ICD-10 codes and labels
I85	Oesophageal varices
I864	Gastric varices
I982	Oesophageal varices without bleeding in diseases classified elsewhere
I983	Oesophageal varices with bleeding in diseases classified elsewhere
K21	Gastro-oesophageal reflux disease
K220	Achalasia of cardia
K222	Oesophageal obstruction
K224	Dyskinesia of oesophagus
K225	Diverticulum of oesophagus, acquired

K227	Barrett oesophagus
K230	Tuberculous oesophagitis
K231	Megaoesophagus in Chagas disease
K254	Gastric ulcer: Chronic or unspecified with haemorrhage
K255	Gastric ulcer: Chronic or unspecified with perforation
K256	Gastric ulcer: Chronic or unspecified with both haemorrhage and perforation
K257	Gastric ulcer: Chronic without haemorrhage or perforation
K264	Duodenal ulcer: Chronic or unspecified with haemorrhage
K265	Duodenal ulcer: Chronic or unspecified with perforation
K266	Duodenal ulcer: Chronic or unspecified with both haemorrhage and perforation
K267	Duodenal ulcer: Chronic without haemorrhage or perforation
K274	Peptic ulcer, site unspecified: Chronic or unspecified with haemorrhage
K275	Peptic ulcer, site unspecified: Chronic or unspecified with perforation
K276	Peptic ulcer, site unspecified: Chronic or unspecified with both haemorrhage and perforation
K277	Peptic ulcer, site unspecified: Chronic without haemorrhage or perforation
K284	Gastrojejunal ulcer: Chronic or unspecified with haemorrhage
K285	Gastrojejunal ulcer: Chronic or unspecified with perforation
K286	Gastrojejunal ulcer: Chronic or unspecified with both haemorrhage and perforation
K287	Gastrojejunal ulcer: Chronic without haemorrhage or perforation
K293	Chronic superficial gastritis
K294	Chronic atrophic gastritis
K295	Chronic gastritis, unspecified
K296	Other gastritis
K297	Gastritis, unspecified
K298	Duodenitis
K299	Gastroduodenitis, unspecified
K311	Adult hypertrophic pyloric stenosis
K312	Hourglass stricture and stenosis of stomach
K313	Pylorospasm, not elsewhere classified
K314	Gastric diverticulum
K315	Obstruction of duodenum
Q39	Congenital malformations of oesophagus
Q40	Other congenital malformations of upper alimentary tract
Z903	Acquired absence of part of stomach
GLAUC	COMA
Include	d ICD-10 codes and labels
H401	Primary open-angle glaucoma
H402	Primary angle-closure glaucoma
H403	Glaucoma secondary to eye trauma
H404	Glaucoma secondary to eye inflammation
H405	Glaucoma secondary to other eye disorders
H406	Glaucoma secondary to drugs
H408	Other glaucoma

H409	Glaucoma, unspecified
HEAR	Γ FAILURE
Include	d ICD-10 codes and labels
I110	Hypertensive heart disease with (congestive) heart failure
I130	Hypertensive heart and renal disease with (congestive) heart failure
I132	Hypertensive heart and renal disease with both (congestive) heart failure and renal failure
I27	Other pulmonary heart diseases
I280	Arteriovenous fistula of pulmonary vessels
I42	Cardiomyopathy
I43	Cardiomyopathy in diseases classified elsewhere
I50	Heart failure
I515	Myocardial degeneration
I517	Cardiomegaly
I528	Other heart disorders in other diseases classified elsewhere
Z941	Heart transplant status
Z943	Heart and lungs transplant status
HEMA	TOLOGICAL NEOPLASMS
Include	d ICD-10 codes and labels
C81	Hodgkin lymphoma
C82	Follicular lymphoma
C83	Non-follicular lymphoma
C84	Mature T/NK-cell lymphomas
C85	Other and unspecified types of non-Hodgkin lymphoma
C86	Other specified types of T/NK-cell lymphoma
C88	Malignant immunoproliferative diseases
C90	Multiple myeloma and malignant plasma cell neoplasms
C91	Lymphoid leukaemia
C92	Myeloid leukaemia
C93	Monocytic leukaemia
C94	Other leukaemias of specified cell type
C95	Leukaemia of unspecified cell type
C96	Other and unspecified malignant neoplasms of lymphoid, haematopoietic and related tissue
	RTENSION
	d ICD-10 codes and labels
I10	Essential (primary) hypertension
I11	Hypertensive heart disease
I12	Hypertensive renal disease
I13	Hypertensive heart and renal disease
I15	Secondary hypertension
	MMATORY ARTHROPATHIES
	d ICD-10 codes and labels
M023	Reiter disease
M05	Seropositive rheumatoid arthritis

M06	Other rheumatoid arthritis	
M07	Psoriatic and enteropathic arthropathies	
M08	Juvenile arthritis	
M09	Juvenile arthritis in diseases classified elsewhere	
M10	Gout	
M11	Other crystal arthropathies	
M12	Other specific arthropathies	
M13	Other arthritis	
M14	Arthropathies in other diseases classified elsewhere	
M45	Ankylosing spondylitis	
M460	Spinal enthesopathy	
M461	Sacroiliitis, not elsewhere classified	
M468	Other specified inflammatory spondylopathies	
M469	Inflammatory spondylopathy, unspecified	
INFLA	MMATORY BOWEL DISEASES	
Include	d ICD-10 codes and labels	
K50	Crohn disease [regional enteritis]	
K51	Ulcerative colitis	
ISCHE	MIC HEART DISEASE	
Include	d ICD-10 codes and labels	
I20	Angina pectoris	
I21	Acute myocardial infarction	
I22	Subsequent myocardial infarction	
I24	Other acute ischaemic heart diseases	
I25	Chronic ischaemic heart disease	
Z951	Presence of aortocoronary bypass graft	
Z955	Presence of coronary angioplasty implant and graft	
MIGRA	AINE AND FACIAL PAIN SYNDROMES	
Include	d ICD-10 codes and labels	
G43	Migraine	
G440	Cluster headache syndrome	
G441	Vascular headache, not elsewhere classified	
G442	Tension-type headache	
G443	Chronic post-traumatic headache	
G448	Other specified headache syndromes	
G50	Disorders of trigeminal nerve	
MULTI	IPLE SCLEROSIS	
Include	d ICD-10 codes and labels	
G35	Multiple sclerosis	
	OTIC, STRESS-RELATED AND SOMATOFORM DISEASES	
	Included ICD-10 codes and labels	
F40	Phobic anxiety disorders	
F41	Other anxiety disorders	

F42	Obsessive-compulsive disorder
F43	Reaction to severe stress, and adjustment disorders
F44	Dissociative [conversion] disorders
F45	Somatoform disorders
F48	Other neurotic disorders
	ed ICD-10 codes and labels
F430	Acute stress reaction
F432	Adjustment disorders
OBESI	
	ed ICD-10 codes and labels
E66	Obesity
OSTEC	DARTHRITIS AND OTHER DEGENERATIVE JOINT DISEASES
Include	ed ICD-10 codes and labels
M15	Polyarthrosis
M16	Coxarthrosis [arthrosis of hip]
M17	Gonarthrosis [arthrosis of knee]
M18	Arthrosis of first carpometacarpal joint
M19	Other arthrosis
M362	Haemophilic arthropathy
M363	Arthropathy in other blood disorders
OSTEC	OPOROSIS CONTRACTOR OF THE PROPERTY OF THE PRO
Include	ed ICD-10 codes and labels
M80	Osteoporosis with pathological fracture
M81	Osteoporosis without pathological fracture
M82	Osteoporosis in diseases classified elsewhere
OTHE	R CARDIOVASCULAR DISEASES
Include	ed ICD-10 codes and labels
I09	Other rheumatic heart diseases
I281	Aneurysm of pulmonary artery
I310	Chronic adhesive pericarditis
I311	Chronic constrictive pericarditis
I456	Pre-excitation syndrome
I495	Sick sinus syndrome
I498	Other specified cardiac arrhythmias
I70	Atherosclerosis
I71	Aortic aneurysm and dissection
I72	Other aneurysm and dissection
I790	Aneurysm of aorta in diseases classified elsewhere
I791	Aortitis in diseases classified elsewhere
I950	Idiopathic hypotension
I951	Orthostatic hypotension
I958	Other hypotension
Q20	Congenital malformations of cardiac chambers and connections

Q21	Congenital malformations of cardiac septa
Q24	Other congenital malformations of heart
Q25	Congenital malformations of great arteries
Q26	Congenital malformations of great veins
Q27	Other congenital malformations of peripheral vascular system
Q28	Other congenital malformations of circulatory system
Z958	Presence of other cardiac and vascular implants and grafts
Z959	Presence of cardiac and vascular implant and graft, unspecified
Exclude	ed ICD-10 codes and labels
I091	Rheumatic diseases of endocardium, valve unspecified
I098	Other specified rheumatic heart diseases
I702	Atherosclerosis of arteries of extremities
OTHER	R DIGESTIVE DISEASES
Include	d ICD-10 codes and labels
K660	Peritoneal adhesions
K900	Coeliac disease
K901	Tropical sprue
K902	Blind loop syndrome, not elsewhere classified
K911	Postgastric surgery syndromes
K93	Disorders of other digestive organs in diseases classified elsewhere
Q41	Congenital absence, atresia and stenosis of small intestine
Q42	Congenital absence, atresia and stenosis of large intestine
Q43	Other congenital malformations of intestine
R15	Faecal incontinence
Z904	Acquired absence of other parts of digestive tract
Z980	Intestinal bypass and anastomosis status
OTHER	R EYE DISEASES
Include	d ICD-10 codes and labels
H022	Lagophthalmos
H023	Blepharochalasis
H024	Ptosis of eyelid
H025	Other disorders affecting eyelid function
H04	Disorders of lacrimal system
H05	Disorders of orbit
H104	Chronic conjunctivitis
H17	Corneal scars and opacities
H184	Corneal degeneration
H185	Hereditary corneal dystrophies
H186	Keratoconus
H187	Other corneal deformities
H188	Other specified disorders of cornea
H189	Disorder of cornea, unspecified
H193	Keratitis and keratoconjunctivitis in other diseases classified elsewhere

H198	Other disorders of sclera and cornea in diseases classified elsewhere
H201	Chronic iridocyclitis
H21	Other disorders of iris and ciliary body
H310	Chorioretinal scars
H311	Choroidal degeneration
H312	Hereditary choroidal dystrophy
H318	Other specified disorders of choroid
H319	Disorder of choroid, unspecified
H33	Retinal detachments and breaks
H352	Other proliferative retinopathy
H353	Degeneration of macula and posterior pole
H354	Peripheral retinal degeneration
H355	Hereditary retinal dystrophy
H357	Separation of retinal layers
H358	Other specified retinal disorders
H359	Retinal disorder, unspecified
H36	Retinal disorders in diseases classified elsewhere
H47	Other disorders of optic [2nd] nerve and visual pathways
H48	Disorders of optic [2nd] nerve and visual pathways in diseases classified elsewhere
H49	Paralytic strabismus
H51	Other disorders of binocular movement
Q10	Congenital malformations of eyelid, lacrimal apparatus and orbit
Q11	Anophthalmos, microphthalmos and macrophthalmos
Q13	Congenital malformations of anterior segment of eye
Q14	Congenital malformations of posterior segment of eye
Q15	Other congenital malformations of eye
Z947	Corneal transplant status
Exclude	d ICD-10 codes and labels
H043	Acute and unspecified inflammation of lacrimal passages
H050	Acute inflammation of orbit
H470	Disorders of optic nerve, not elsewhere classified
H471	Papilloedema, unspecified
H481	Retrobulbar neuritis in diseases classified elsewhere
OTHER	R GENITOURINARY DISEASES
Include	d ICD-10 codes and labels
B901	Sequelae of genitourinary tuberculosis
N200	Calculus of kidney
N202	Calculus of kidney with calculus of ureter
N209	Urinary calculus, unspecified
N210	Calculus in bladder
N218	Other lower urinary tract calculus
N219	Calculus of lower urinary tract, unspecified
N22	Calculus of urinary tract in diseases classified elsewhere

N301	Interstitial cystitis (chronic)
N302	Other chronic cystitis
N303	Trigonitis
N304	Irradiation cystitis
N31	Neuromuscular dysfunction of bladder, not elsewhere classified
N320	Bladder-neck obstruction
N323	Diverticulum of bladder
N328	Other specified disorders of bladder
N329	Bladder disorder, unspecified
N33	Bladder disorders in diseases classified elsewhere
N35	Urethral stricture
N393	Stress incontinence
N394	Other specified urinary incontinence
N480	Leukoplakia of penis
N484	Impotence of organic origin
N489	Disorder of penis, unspecified
N701	Chronic salpingitis and oophoritis
N711	Chronic inflammatory disease of uterus
N731	Chronic parametritis and pelvic cellulitis
N734	Female chronic pelvic peritonitis
N736	Female pelvic peritoneal adhesions
N761	Subacute and chronic vaginitis
N763	Subacute and chronic vulvitis
N81	Female genital prolapse
N88	Other noninflammatory disorders of cervix uteri
N895	Stricture and atresia of vagina
N905	Atrophy of vulva
N952	Postmenopausal atrophic vaginitis
Q54	Hypospadias
Q620	Congenital hydronephrosis
Q621	Atresia and stenosis of ureter
Q622	Congenital megaloureter
Q623	Other obstructive defects of renal pelvis and ureter
Q624	Agenesis of ureter
Q627	Congenital vesico-uretero-renal reflux
Q628	Other congenital malformations of ureter
Q638	Other specified congenital malformations of kidney
Q639	Congenital malformation of kidney, unspecified
Q640	Epispadias
Q641	Exstrophy of urinary bladder
Q643	Other atresia and stenosis of urethra and bladder neck
Q644	Malformation of urachus
Q645	Congenital absence of bladder and urethra

Q646	Congenital diverticulum of bladder								
Q647	Other congenital malformations of bladder and urethra								
Q648	Other specified congenital malformations of urinary system								
Q649	Congenital malformation of urinary system, unspecified								
Z906	Acquired absence of other organs of urinary tract								
Z907	Acquired absence of genital organ(s)								
Z960	Presence of urogenital implants								
	R METABOLIC DISEASES								
	d ICD-10 codes and labels								
E20	Hypoparathyroidism								
E21	Hyperparathyroidism and other disorders of parathyroid gland								
E22	Hyperfunction of pituitary gland								
E23	Hypofunction and other disorders of pituitary gland								
E24	Cushing syndrome								
E25	Adrenogenital disorders								
E26	Hyperaldosteronism								
E27	Other disorders of adrenal gland								
E28	Ovarian dysfunction								
E29	Testicular dysfunction								
E31	Polyglandular dysfunction								
E34	Other endocrine disorders								
E35	Disorders of endocrine glands in diseases classified elsewhere								
E40	Kwashiorkor								
E41	Nutritional marasmus								
E42	Marasmic kwashiorkor								
E43	Unspecified severe protein-energy malnutrition								
E44	Protein-energy malnutrition of moderate and mild degree								
E45	Retarded development following protein-energy malnutrition								
E46	Unspecified protein-energy malnutrition								
E64	Sequelae of malnutrition and other nutritional deficiencies								
E70	Disorders of aromatic amino-acid metabolism								
E71	Disorders of branched-chain amino-acid metabolism and fatty-acid metabolism								
E72	Other disorders of amino-acid metabolism								
E74	Other disorders of carbohydrate metabolism								
E75	Disorders of sphingolipid metabolism and other lipid storage disorders								
E76	Disorders of glycosaminoglycan metabolism								
E77	Disorders of glycoprotein metabolism								
E79	Disorders of purine and pyrimidine metabolism								
E80	Disorders of porphyrin and bilirubin metabolism								
E83	Disorders of mineral metabolism								
E84	Cystic fibrosis								
E85	Amyloidosis								
E88	Other metabolic disorders								

E89	Postprocedural endocrine and metabolic disorders, not elsewhere classified								
K903	Pancreatic steatorrhoea								
K904	Malabsorption due to intolerance, not elsewhere classified								
K908	Other intestinal malabsorption								
K909	Intestinal malabsorption, unspecified								
K912	Postsurgical malabsorption, not elsewhere classified								
M83	Adult osteomalacia								
M88	Paget disease of bone [osteitis deformans]								
N25	Disorders resulting from impaired renal tubular function								
Exclude	ed ICD-10 codes and labels								
E231	Drug-induced hypopituitarism								
E242	Drug-induced Cushing syndrome								
E244	Alcohol-induced pseudo-Cushing syndrome								
E273	Drug-induced adrenocortical insufficiency								
E343	Short stature, not elsewhere classified								
E344	Constitutional tall stature								
E350	Disorders of thyroid gland in diseases classified elsewhere								
E441	Mild protein-energy malnutrition								
E790	Hyperuricaemia without signs of inflammatory arthritis and tophaceous disease								
E804	Gilbert syndrome								
E883	Tumour lysis syndrome								
E890	Postprocedural hypothyroidism								
E892	Postprocedural hypoparathyroidism								
OTHE	R MUSCULOSKELETAL AND JOINT DISEASES								
Include	d ICD-10 codes and labels								
B902	Sequelae of tuberculosis of bones and joints								
M212	Flexion deformity								
M213	Wrist or foot drop (acquired)								
M214	Flat foot [pes planus] (acquired)								
M215	Acquired clawhand, clawfoot and clubfoot								
M216	Other acquired deformities of ankle and foot								
M217	Unequal limb length (acquired)								
M218	Other specified acquired deformities of limbs								
M219	Acquired deformity of limb, unspecified								
M22	Disorders of patella								
M23	Internal derangement of knee								
M24	Other specific joint derangements								
M252	Flail joint								
M253	Other instability of joint								
M357	Hypermobility syndrome								
M61	Calcification and ossification of muscle								
M652	Calcific tendinitis								
M653	Trigger finger								

M654	Radial styloid tenosynovitis [de Quervain]
M700	Chronic crepitant synovitis of hand and wrist
M720	Palmar fascial fibromatosis [Dupuytren]
M722	Plantar fascial fibromatosis
M724	Pseudosarcomatous fibromatosis
M750	Adhesive capsulitis of shoulder
M751	Rotator cuff syndrome
M753	Calcific tendinitis of shoulder
M754	Impingement syndrome of shoulder
M797	Fibromyalgia
M841	Nonunion of fracture [pseudarthrosis]
M89	Other disorders of bone
M91	Juvenile osteochondrosis of hip and pelvis
M93	Other osteochondropathies
M94	Other disorders of cartilage
M96	Postprocedural musculoskeletal disorders, not elsewhere classified
M99	Biomechanical lesions, not elsewhere classified
Q65	Congenital deformities of hip
Q66	Congenital deformities of feet
Q68	Other congenital musculoskeletal deformities
Q71	Reduction defects of upper limb
Q72	Reduction defects of lower limb
Q73	Reduction defects of unspecified limb
Q74	Other congenital malformations of limb(s)
Q77	Osteochondrodysplasia with defects of growth of tubular bones and spine
Q78	Other osteochondrodysplasias
Q796	Ehlers-Danlos syndrome
Q798	Other congenital malformations of musculoskeletal system
Q87	Other specified congenital malformation syndromes affecting multiple systems
S382	Traumatic amputation of external genital organs
S48	Traumatic amputation of shoulder and upper arm
S58	Traumatic amputation of forearm
S68	Traumatic amputation of wrist and hand
S78	Traumatic amputation of hip and thigh
S88	Traumatic amputation of lower leg
S98	Traumatic amputation of ankle and foot
T05	Traumatic amputations involving multiple body regions
T096	Traumatic amputation of trunk, level unspecified
T116	Traumatic amputation of upper limb, level unspecified
T136	Traumatic amputation of lower limb, level unspecified
T147	Crushing injury and traumatic amputation of unspecified body region
T90	Sequelae of injuries of head
T91	Sequelae of injuries of neck and trunk

T92	Sequelae of injuries of upper limb								
T93	Sequelae of injuries of lower limb								
T94	Sequelae of injuries involving multiple and unspecified body regions								
T95	Sequelae of burns, corrosions and frostbite								
T96	Sequelae of poisoning by drugs, medicaments and biological substances								
T97	Sequelae of toxic effects of substances chiefly nonmedicinal as to source								
T98	Sequelae of other and unspecified effects of external causes								
Z440	Fitting and adjustment of artificial arm (complete)(partial)								
Z 441	Fitting and adjustment of artificial leg (complete)(partial)								
Z891	Acquired absence of hand and wrist								
Z892	Acquired absence of upper limb above wrist								
Z893	Acquired absence of both upper limbs [any level]								
Z894	Acquired absence of foot and ankle								
Z895	Acquired absence of leg at or below knee								
Z896	Acquired absence of leg above knee								
Z897	Acquired absence of both lower limbs [any level, except toes alone]								
Z898	Acquired absence of upper and lower limbs [any level]								
Z899	Acquired absence of limb, unspecified								
Z946	Bone transplant status								
Z966	Presence of orthopaedic joint implants								
Z971	Presence of artificial limb (complete)(partial)								
OTHE	R NEUROLOGICAL DISEASES								
Include	d ICD-10 codes and labels								
B900	Sequelae of central nervous system tuberculosis								
D482	Neoplasm of uncertain or unknown behaviour: Peripheral nerves and autonomic nervous								
G041	System Tropical spastic paraplegia								
G041	Sequelae of inflammatory diseases of central nervous system								
G10	Huntington disease								
G10	Hereditary ataxia								
G12	Spinal muscular atrophy and related syndromes								
	Systemic atrophies primarily affecting central nervous system in diseases classified								
G13	elsewhere								
G24	Dystonia								
G25	Other extrapyramidal and movement disorders								
G26	Extrapyramidal and movement disorders in diseases classified elsewhere								
G32	Other degenerative disorders of nervous system in diseases classified elsewhere								
G37	Other demyelinating diseases of central nervous system								
	Facial nerve disorders								
G51									
G51 G52									
	Facial nerve disorders								
G52	Facial nerve disorders Disorders of other cranial nerves								

G723	Periodic paralysis								
G724	Inflammatory myopathy, not elsewhere classified								
G728	Other specified myopathies								
G729	Myopathy, unspecified								
G73	Disorders of myoneural junction and muscle in diseases classified elsewhere								
G80	Cerebral palsy								
G81	Hemiplegia								
G82	Paraplegia and tetraplegia								
G83	Other paralytic syndromes								
G90	Disorders of autonomic nervous system								
G91	Hydrocephalus								
G938	Other specified disorders of brain								
G939	Disorder of brain, unspecified								
G95	Other diseases of spinal cord								
G99	Other disorders of nervous system in diseases classified elsewhere								
M471	Other spondylosis with myelopathy								
Q00	Anencephaly and similar malformations								
Q01	Encephalocele								
Q02	Microcephaly								
Q03	Congenital hydrocephalus								
Q04	Other congenital malformations of brain								
Q05	Spina bifida								
Q06	Other congenital malformations of spinal cord								
Q07	Other congenital malformations of nervous system								
Q760	Spina bifida occulta								
Exclude	ed ICD-10 codes and labels								
G130	Paraneoplastic neuromyopathy and neuropathy								
G131	Other systemic atrophy primarily affecting central nervous system in neoplastic disease								
G251	Drug-induced tremor								
G254	Drug-induced chorea								
G256	Drug-induced tics and other tics of organic origin								
G510	Bell palsy								
G732	Other myasthenic syndromes in neoplastic disease								
G733	Myasthenic syndromes in other diseases classified elsewhere								
G734	Myopathy in infectious and parasitic diseases classified elsewhere								
G838	Other specified paralytic syndromes								
OTHEI	R PSYCHIATRIC AND BEHAVIORAL DISEASES								
Include	d ICD-10 codes and labels								
F04	Organic amnesic syndrome, not induced by alcohol and other psychoactive substances								
F06	Other mental disorders due to brain damage and dysfunction and to physical disease								
F07	Personality and behavioural disorders due to brain disease, damage and dysfunction								
F09	Unspecified organic or symptomatic mental disorder								
F102	Mental and behavioural disorders due to use of alcohol: Dependence syndrome								

F107 Mental and behavioural disorders due to use of alcohol; Residual and late-onset psychotic disorder F118 Mental and behavioural disorders due to use of opioids: Dependence syndrome F119 Mental and behavioural disorders due to use of opioids: Amnesic syndrome F110 Mental and behavioural disorders due to use of opioids: Residual and late-onset psychotic disorder F121 Mental and behavioural disorders due to use of cannabinoids: Dependence syndrome F122 Mental and behavioural disorders due to use of cannabinoids: Residual and late-onset psychotic disorder F123 Mental and behavioural disorders due to use of sedatives or hypnotics: Spependence syndrome F136 Mental and behavioural disorders due to use of sedatives or hypnotics: Dependence syndrome F136 Mental and behavioural disorders due to use of sedatives or hypnotics: Amnesic syndrome F140 Mental and behavioural disorders due to use of sedatives or hypnotics: Residual and late-onset psychotic disorder F141 Mental and behavioural disorders due to use of cocaine: Dependence syndrome F140 Mental and behavioural disorders due to use of cocaine: Amnesic syndrome F141 Mental and behavioural disorders due to use of cocaine: Residual and late-onset psychotic disorder F140 Mental and behavioural disorders due to use of other stimulants, including caffeine: F141 Mental and behavioural disorders due to use of other stimulants, including caffeine: F142 Mental and behavioural disorders due to use of other stimulants, including caffeine: F143 Mental and behavioural disorders due to use of other stimulants, including caffeine: F144 Mental and behavioural disorders due to use of other stimulants, including caffeine: F150 Mental and behavioural disorders due to use of hallucinogens: Dependence syndrome F161 Mental and behavioural disorders due to use of hallucinogens: Amnesic syndrome F162 Mental and behavioural disorders due to use of hallucinogens: Pamesic syndrome F163 Mental and behavioural disorders due to use of tobacco: Residual and late-onset psychotic disorder F164 Me	F106	Mental and behavioural disorders due to use of alcohol: Amnesic syndrome
F112 Mental and behavioural disorders due to use of opioids: Amnesic syndrome F116 Mental and behavioural disorders due to use of opioids: Amnesic syndrome F117 Mental and behavioural disorders due to use of opioids: Residual and late-onset psychotic disorder F122 Mental and behavioural disorders due to use of cannabinoids: Amnesic syndrome F126 Mental and behavioural disorders due to use of cannabinoids: Residual and late-onset psychotic disorder F137 Mental and behavioural disorders due to use of sedatives or hypnotics: Dependence syndrome F136 Mental and behavioural disorders due to use of sedatives or hypnotics: Amnesic syndrome F137 Mental and behavioural disorders due to use of sedatives or hypnotics: Residual and lateonset psychotic disorder F142 Mental and behavioural disorders due to use of sedatives or hypnotics: Residual and lateonset psychotic disorder F143 Mental and behavioural disorders due to use of cocaine: Amnesic syndrome F144 Mental and behavioural disorders due to use of cocaine: Residual and late-onset psychotic disorder F154 Mental and behavioural disorders due to use of other stimulants, including caffeine: Dependence syndrome F152 Mental and behavioural disorders due to use of other stimulants, including caffeine: Residual and late-onset psychotic disorder F162 Mental and	F107	
Mental and behavioural disorders due to use of opioids: Amnesic syndrome	F112	
F117 Mental and behavioural disorders due to use of opioids: Residual and late-onset psychotic disorder F122 Mental and behavioural disorders due to use of cannabinoids: Dependence syndrome F126 Mental and behavioural disorders due to use of cannabinoids: Residual and late-onset psychotic disorder F127 Mental and behavioural disorders due to use of sedatives or hypnotics: Dependence syndrome F138 Mental and behavioural disorders due to use of sedatives or hypnotics: Dependence syndrome F139 Mental and behavioural disorders due to use of sedatives or hypnotics: Residual and late-onset psychotic disorder F140 Mental and behavioural disorders due to use of sedatives or hypnotics: Residual and late-onset psychotic disorder F141 Mental and behavioural disorders due to use of cocaine: Dependence syndrome F142 Mental and behavioural disorders due to use of cocaine: Residual and late-onset psychotic disorder F143 Mental and behavioural disorders due to use of other stimulants, including caffeine: Dependence syndrome F144 Mental and behavioural disorders due to use of other stimulants, including caffeine: Dependence syndrome F154 Mental and behavioural disorders due to use of other stimulants, including caffeine: Amnesic syndrome F155 Mental and behavioural disorders due to use of hallucinogens: Dependence syndrome F160 Mental and behavioural disorders due to use of hallucinogens: Dependence syndrome F161 Mental and behavioural disorders due to use of hallucinogens: Residual and late-onset psychotic disorder F170 Mental and behavioural disorders due to use of tobacco: Amnesic syndrome F181 Mental and behavioural disorders due to use of tobacco: Amnesic syndrome F182 Mental and behavioural disorders due to use of tobacco: Amnesic syndrome F183 Mental and behavioural disorders due to use of tobacco: Amnesic syndrome F184 Mental and behavioural disorders due to use of volatile solvents: Dependence syndrome F185 Mental and behavioural disorders due to use of volatile solvents: Residual and late-onset psy		
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F147 Mental and behavioural disorders due to use of cocaine: Residual and late-onset psychotic disorder F152 Mental and behavioural disorders due to use of other stimulants, including caffeine: Dependence syndrome F156 Mental and behavioural disorders due to use of other stimulants, including caffeine: Amnesic syndrome F157 Mental and behavioural disorders due to use of other stimulants, including caffeine: Residual and late-onset psychotic disorder F162 Mental and behavioural disorders due to use of hallucinogens: Dependence syndrome F163 Mental and behavioural disorders due to use of hallucinogens: Amnesic syndrome F164 Mental and behavioural disorders due to use of hallucinogens: Residual and late-onset psychotic disorder F172 Mental and behavioural disorders due to use of tobacco: Dependence syndrome F176 Mental and behavioural disorders due to use of tobacco: Amnesic syndrome F177 Mental and behavioural disorders due to use of tobacco: Residual and late-onset psychotic disorder F180 Mental and behavioural disorders due to use of volatile solvents: Dependence syndrome F181 Mental and behavioural disorders due to use of volatile solvents: Residual and late-onset psychotic disorder F182 Mental and behavioural disorders due to use of volatile solvents: Residual and late-onset psychotic disorder F193 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Dependence syndrome F196 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Amnesic syndrome F197 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F198 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F198 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F199 Sexual dysfunct	F142	Mental and behavioural disorders due to use of cocaine: Dependence syndrome
Mental and behavioural disorders due to use of other stimulants, including caffeine: Dependence syndrome	F146	Mental and behavioural disorders due to use of cocaine: Amnesic syndrome
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F166 Mental and behavioural disorders due to use of hallucinogens: Amnesic syndrome F167 Mental and behavioural disorders due to use of hallucinogens: Residual and late-onset psychotic disorder F172 Mental and behavioural disorders due to use of tobacco: Dependence syndrome F173 Mental and behavioural disorders due to use of tobacco: Amnesic syndrome F174 Mental and behavioural disorders due to use of tobacco: Residual and late-onset psychotic disorder F185 Mental and behavioural disorders due to use of volatile solvents: Dependence syndrome F186 Mental and behavioural disorders due to use of volatile solvents: Amnesic syndrome F187 Mental and behavioural disorders due to use of volatile solvents: Residual and late-onset psychotic disorder F192 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Dependence syndrome F196 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Amnesic syndrome F197 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F197 Eating disorders F50 Eating disorders F50 Sexual dysfunction, not caused by organic disorder or disease	F157	=
F167 Mental and behavioural disorders due to use of hallucinogens: Residual and late-onset psychotic disorder F172 Mental and behavioural disorders due to use of tobacco: Dependence syndrome F176 Mental and behavioural disorders due to use of tobacco: Amnesic syndrome F177 Mental and behavioural disorders due to use of tobacco: Residual and late-onset psychotic disorder F182 Mental and behavioural disorders due to use of volatile solvents: Dependence syndrome F186 Mental and behavioural disorders due to use of volatile solvents: Amnesic syndrome F187 Mental and behavioural disorders due to use of volatile solvents: Residual and late-onset psychotic disorder F192 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Dependence syndrome F196 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Amnesic syndrome F197 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Amnesic syndrome F198 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F199 Eating disorders F50 Eating disorders F52 Sexual dysfunction, not caused by organic disorder or disease	F162	Mental and behavioural disorders due to use of hallucinogens: Dependence syndrome
psychotic disorder F172 Mental and behavioural disorders due to use of tobacco: Dependence syndrome F176 Mental and behavioural disorders due to use of tobacco: Amnesic syndrome F177 Mental and behavioural disorders due to use of tobacco: Residual and late-onset psychotic disorder F182 Mental and behavioural disorders due to use of volatile solvents: Dependence syndrome F186 Mental and behavioural disorders due to use of volatile solvents: Amnesic syndrome F187 Mental and behavioural disorders due to use of volatile solvents: Residual and late-onset psychotic disorder F192 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Dependence syndrome F196 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Amnesic syndrome F197 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F197 Eating disorders F50 Eating disorders F52 Sexual dysfunction, not caused by organic disorder or disease	F166	
F176 Mental and behavioural disorders due to use of tobacco: Amnesic syndrome F177 Mental and behavioural disorders due to use of tobacco: Residual and late-onset psychotic disorder F182 Mental and behavioural disorders due to use of volatile solvents: Dependence syndrome F186 Mental and behavioural disorders due to use of volatile solvents: Amnesic syndrome F187 Mental and behavioural disorders due to use of volatile solvents: Residual and late-onset psychotic disorder F192 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Dependence syndrome F196 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Amnesic syndrome F197 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F50 Eating disorders F50 Sexual dysfunction, not caused by organic disorder or disease	F167	
F177 Mental and behavioural disorders due to use of tobacco: Residual and late-onset psychotic disorder F182 Mental and behavioural disorders due to use of volatile solvents: Dependence syndrome F186 Mental and behavioural disorders due to use of volatile solvents: Amnesic syndrome Mental and behavioural disorders due to use of volatile solvents: Residual and late-onset psychotic disorder Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Dependence syndrome F196 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Amnesic syndrome F197 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F50 Eating disorders F52 Sexual dysfunction, not caused by organic disorder or disease	F172	Mental and behavioural disorders due to use of tobacco: Dependence syndrome
F182 Mental and behavioural disorders due to use of volatile solvents: Dependence syndrome F186 Mental and behavioural disorders due to use of volatile solvents: Amnesic syndrome F187 Mental and behavioural disorders due to use of volatile solvents: Residual and late-onset psychotic disorder F192 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Dependence syndrome F196 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Amnesic syndrome F197 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F50 Eating disorders F52 Sexual dysfunction, not caused by organic disorder or disease	F176	Mental and behavioural disorders due to use of tobacco: Amnesic syndrome
F187 Mental and behavioural disorders due to use of volatile solvents: Amnesic syndrome F187 Mental and behavioural disorders due to use of volatile solvents: Residual and late-onset psychotic disorder F192 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Dependence syndrome F196 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Amnesic syndrome F197 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F50 Eating disorders F52 Sexual dysfunction, not caused by organic disorder or disease	F177	
F187 Mental and behavioural disorders due to use of volatile solvents: Residual and late-onset psychotic disorder F192 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Dependence syndrome F196 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Amnesic syndrome F197 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F50 Eating disorders F52 Sexual dysfunction, not caused by organic disorder or disease	F182	Mental and behavioural disorders due to use of volatile solvents: Dependence syndrome
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F196 Substances: Dependence syndrome F196 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Amnesic syndrome F197 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F50 Eating disorders F52 Sexual dysfunction, not caused by organic disorder or disease	F187	psychotic disorder
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F197 Mental and behavioural disorders due to multiple drug use and use of other psychoactive substances: Residual and late-onset psychotic disorder F50 Eating disorders F52 Sexual dysfunction, not caused by organic disorder or disease	F196	Mental and behavioural disorders due to multiple drug use and use of other psychoactive
F50 Eating disorders F52 Sexual dysfunction, not caused by organic disorder or disease	F197	Mental and behavioural disorders due to multiple drug use and use of other psychoactive
F52 Sexual dysfunction, not caused by organic disorder or disease	F50	
F60 Specific personality disorders	F52	
	F60	Specific personality disorders

F61	Mixed and other personality disorders							
F62	Enduring personality changes, not attributable to brain damage and disease							
F63	Habit and impulse disorders							
F68	Other disorders of adult personality and behaviour							
F70	Mild mental retardation							
F71	Moderate mental retardation							
F72	Severe mental retardation							
F73	Profound mental retardation							
F78	Other mental retardation							
F79	Unspecified mental retardation							
F80	Specific developmental disorders of speech and language							
F81	Specific developmental disorders of scholastic skills							
F82	Specific developmental disorder of motor function							
F83	Mixed specific developmental disorders							
F84	Pervasive developmental disorders							
F88	Other disorders of psychological development							
F89	Unspecified disorder of psychological development							
F95	Tic disorders							
F99	Mental disorder, not otherwise specified							
OTHEI	R RESPIRATORY DISEASES							
Include	d ICD-10 codes and labels							
B909	Sequelae of respiratory and unspecified tuberculosis							
E662	Extreme obesity with alveolar hypoventilation							
J60	Coalworker pneumoconiosis							
J61	Pneumoconiosis due to asbestos and other mineral fibres							
J62	Pneumoconiosis due to dust containing silica							
J63	Pneumoconiosis due to other inorganic dusts							
J64	Unspecified pneumoconiosis							
J65	Pneumoconiosis associated with tuberculosis							
J66	Airway disease due to specific organic dust							
J67	Hypersensitivity pneumonitis due to organic dust							
J684	Chronic respiratory conditions due to chemicals, gases, fumes and vapours							
J701	Chronic and other pulmonary manifestations due to radiation							
J703	Chronic drug-induced interstitial lung disorders							
J704	Drug-induced interstitial lung disorders, unspecified							
J84	Other interstitial pulmonary diseases							
J92	Pleural plaque							
J941	Fibrothorax							
J953	Chronic pulmonary insufficiency following surgery							
J955	Postprocedural subglottic stenosis							
J961	Chronic respiratory failure							
J98	Other respiratory disorders							
Q33	Congenital malformations of lung							

Q34	Other congenital malformations of respiratory system							
Z902	Acquired absence of lung [part of]							
Z942	Lung transplant status							
Z943	Heart and lungs transplant status							
Z963	Presence of artificial larynx							
Exclude	ed ICD-10 codes and labels							
J981	Pulmonary collapse							
OTHER	R SKIN DISEASES							
Include	d ICD-10 codes and labels							
L13	Other bullous disorders							
L28	Lichen simplex chronicus and prurigo							
L301	Dyshidrosis [pompholyx]							
L43	Lichen planus							
L508	Other urticaria							
L581	Chronic radiodermatitis							
L85	Other epidermal thickening							
Q80	Congenital ichthyosis							
Q81	Epidermolysis bullosa							
Q821	Xeroderma pigmentosum							
Q822	Mastocytosis							
Q829	Congenital malformation of skin, unspecified							
Exclude	ed ICD-10 codes and labels							
L432	Lichenoid drug reaction							
PARKI	NSON AND PARKINSONISM							
Include	d ICD-10 codes and labels							
G20	Parkinson disease							
G21	Secondary parkinsonism							
G22	Parkinsonism in diseases classified elsewhere							
G23	Other degenerative diseases of basal ganglia							
Exclude	ed ICD-10 codes and labels							
G210	Malignant neuroleptic syndrome							
PERIP	HERAL NEUROPATHY							
Include	d ICD-10 codes and labels							
B91	Sequelae of poliomyelitis							
G14	Postpolio syndrome							
G54	Nerve root and plexus disorders							
G55	Nerve root and plexus compressions in diseases classified elsewhere							
G56	Mononeuropathies of upper limb							
G57	Mononeuropathies of lower limb							
G58	Other mononeuropathies							
G59	Mononeuropathy in diseases classified elsewhere							
G60	Hereditary and idiopathic neuropathy							
G628	Other specified polyneuropathies							

G629	Polyneuropathy, unspecified								
G63	Polyneuropathy in diseases classified elsewhere								
M472	Other spondylosis with radiculopathy								
M531	Cervicobrachial syndrome								
M541	Radiculopathy								
	ed ICD-10 codes and labels								
G631	Polyneuropathy in neoplastic disease								
PERIP	HERAL VASCULAR DISEASE								
	ed ICD-10 codes and labels								
I702	Atherosclerosis of arteries of extremities								
I73	Other peripheral vascular diseases								
I792	Peripheral angiopathy in diseases classified elsewhere								
I798	Other disorders of arteries, arterioles and capillaries in diseases classified elsewhere								
Exclud	ed ICD-10 codes and labels								
I731	Thromboangiitis obliterans [Buerger]								
I738	Other specified peripheral vascular diseases								
PROST	TATE DISEASES								
Include	ed ICD-10 codes and labels								
N40	Hyperplasia of prostate								
N411	Chronic prostatitis								
N418	Other inflammatory diseases of prostate								
SCHIZ	OPHRENIA AND DELUSIONAL DISEASES								
Include	ed ICD-10 codes and labels								
F20	Schizophrenia								
F22	Persistent delusional disorders								
F24	Induced delusional disorder								
F25	Schizoaffective disorders								
F28	Other nonorganic psychotic disorders								
SLEEP	DISORDERS								
Include	ed ICD-10 codes and labels								
F510	Nonorganic insomnia								
F511	Nonorganic hypersomnia								
F512	Nonorganic disorder of the sleep-wake schedule								
F513	Sleepwalking [somnambulism]								
G47	Sleep disorders								
SOLID	SOLID NEOPLASMS								
Include	ed ICD-10 codes and labels								
С	Malignant neoplasms								
D00	Carcinoma in situ of oral cavity, oesophagus and stomach								
D01	Carcinoma in situ of other and unspecified digestive organs								
D02	Carcinoma in situ of middle ear and respiratory system								
D03	Melanoma in situ								
D04	Carcinoma in situ of skin								

D05	Carcinoma in situ of breast									
D06	Carcinoma in situ of cervix uteri									
D07	Carcinoma in situ of other and unspecified genital organs Carcinoma in situ of other and unspecified sites									
D09	Carcinoma in situ of other and unspecified sites									
D320	Benign neoplasm: Cerebral meninges									
D321	Benign neoplasm: Spinal meninges									
D329	Benign neoplasm: Meninges, unspecified									
D330	Benign neoplasm: Brain, supratentorial Benign neoplasm: Brain, infratentorial									
D331	Benign neoplasm: Brain, infratentorial									
D332	Benign neoplasm: Brain, infratentorial Benign neoplasm: Brain, unspecified									
D333	Benign neoplasm: Cranial nerves									
D334	Benign neoplasm: Spinal cord									
Q85	Phakomatoses, not elsewhere classified									
Exclude	ed ICD-10 codes and labels									
C81	Hodgkin lymphoma									
C82	Follicular lymphoma									
C83	Non-follicular lymphoma									
C84	Mature T/NK-cell lymphomas									
C85	Other and unspecified types of non-Hodgkin lymphoma									
C86	Other specified types of T/NK-cell lymphoma									
C88	Malignant immunoproliferative diseases									
C90	Multiple myeloma and malignant plasma cell neoplasms									
C91	Lymphoid leukaemia									
C92	Myeloid leukaemia									
C93	Monocytic leukaemia									
C94	Other leukaemias of specified cell type									
C95	Leukaemia of unspecified cell type									
C96	Other and unspecified malignant neoplasms of lymphoid, haematopoietic and related tissue									
THYRO	DID DISEASES									
Include	d ICD-10 codes and labels									
E00	Congenital iodine-deficiency syndrome									
E01	Iodine-deficiency-related thyroid disorders and allied conditions									
E02	Subclinical iodine-deficiency hypothyroidism									
E03	Other hypothyroidism									
E05	Thyrotoxicosis [hyperthyroidism]									
E062	Chronic thyroiditis with transient thyrotoxicosis									
E063	Autoimmune thyroiditis									
E065	Other chronic thyroiditis									
E07	Other disorders of thyroid									
E350	Disorders of thyroid gland in diseases classified elsewhere									
E890	Postprocedural hypothyroidism									
	Excluded ICD-10 codes and labels									
E035	Myxoedema coma									

VENO	VENOUS AND LYMPHATIC DISEASES				
Included ICD-10 codes and labels					
I780	Hereditary haemorrhagic telangiectasia				
I83	Varicose veins of lower extremities				
I87	Other disorders of veins				
I89	Other noninfective disorders of lymphatic vessels and lymph nodes				
I972	Postmastectomy lymphoedema syndrome				
Q820	Hereditary lymphoedema				

Supplementary table 4. Percentage (row percentages) of participants moving from one cluster to another between baseline and 6 years.

					ROW PERCENTA	GE			
	6-YEAR CLUSTERS								
	Heartard Mc.	Heat ad cost.	Westop, 3rd rep.	₩°	NSK let hard intrum.	Undechic	Oeth C	ordon ^{it}	√Q.Q.
BASELINE CLUSTERS									
Psychiatric and respiratory, n	2	7	51	10	11	18		25	159
%	1,26	4,4	32,08	6,29	6,92	11,32	22,01	15,72	100
Heart, n	15	63	7	4	3	4	146	35	277
% %	5,42	22,74	2,53	1,44	1,08	1,44		12,64	100
~	3, 12	22,71	2,55	<u>-,</u>	2,00	<u>-,</u>	32,71	12,01	100
Eye and Cancer, n	7	22	27	78	6	17	105	43	305
%	2,3	7,21	8,85	25,57	1,97	5,57	34,43	14,1	100
Cognitive and sensory, n	3	3	33	9	2	4	233	19	306
%	0,98	0,98	10,78	2,94	0,65	1,31	76,14	6,21	100
DECD MCVDs or instant and MCV	12	12	60	38	100	68	91	65	450
RESP-MSKRespiratory and MSK	12 2,63	2,85		8,33	109				456 100
%	2,63	2,85	13,16	8,33	23,9	14,91	19,96	14,25	100
Unspecific, n	37	44	87	88	107	647	203	215	1.428
%	2,59	3,08	6,09	6,16		45,31		15,06	100
			,	,	,	· · · · · · · · · · · · · · · · · · ·			
Total, n	76	152	265	227	238	758	813	402	2.931
%	2,59	5,19	9,04	7,74	8,12	25,86	27,74	13,72	100

Supplementary table 5. Percentage (column percentages) of participants moving from one cluster to another between baseline and 6 years.

					COLUMN PERCE				
	6-YEAR CLUSTERS								
	Heat and the	Heat and Collins	Mediols and tels.	¢¢°	MSK tet D. and Irminut.	Unspecific	Death	Ordonit.	~0 ⁵
BASELINE CLUSTERS								_	_
Psychiatric and respiratory, n	2	7	51	10	11	18	35	25	
%	2,63	4,61	19,25	4,41	4,62	2,37	4,31	6,22	5,42
Heart, n	15	63	7	4	3	4	146	35	277
%	19,74	41,45	2,64	1,76	1,26	0,53	17,96	8,71	9,45
Eye and Cancer, n	7	22	27	78	6	17	105	43	305
%	9,21	14,47	10,19	34,36	2,52	2,24	12,92	10,7	10,41
	,	,	•	,	,	,	,	,	,
Cognitive and sensory, n	3	3	33	9	2	4	233	19	306
%	3,95	1,97	12,45	3,96	0,84	0,53	28,66	4,73	10,44
RESP-MSKRespiratory and MSK	12	13	60	38	109	68	91	65	+
%	15,79	8,55	22,64	16,74	45,8	8,97	11,19	16,17	15,56
						_	_	_	
Unspecific, n	37	44	87	88	107	647	203	215	
%	48,68	28,95	32,83	38,77	44,96	85,36	24,97	53,48	48,72
Takal a	70	453	305	227	220	750	013	402	2.024
Total, n	76	152	265	227	238	758	813	402	2.931
%	100	100	100	100	100	100	100	100	100

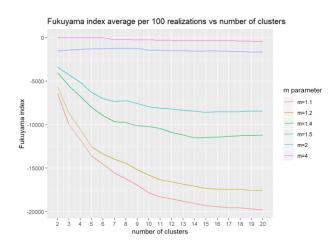
Supplementary table 6. Percentage (**row percentages**) of participants moving from one cluster to another between 6 and 12 years.

						ROW PE			
	12-YEAR CLUSTERS								
	V&Culd	Cadionetabli	Registory	Newoosk	the and high	Unspecific	Death.	Dr. Opto Optic	√ð ^ð
6-YEAR CLUSTERS									
Heart and vascular, n	19	4	0		1	2	37	12	76
%	25	5,26	0	1,32	1,32	2,63	48,68	15,79	100
Heart and cogn., n	5	31	2	4	3	0	93	14	152
%	3,29	20,39	1,32	2,63	1,97	0	61,18	9,21	100
Neurops. and resp, n	4	5	19	31	12	22	143	29	265
%	1,51	1,89	7,17	11,7	4,53	8,3	53,96	10,94	100
Eye, n	10	12	5	42	52	4	79	23	227
%	4,41	5,29	2,2	18,5	22,91	1,76	34,8	10,13	100
N 4014	42		72	10	22	24	22	20	220
MSK, resp and imm, n	12	7	73	18	33		32	29	238
%	5,04	2,94	30,67	7,56	13,87	14,29	13,45	12,18	100
Unengeifie n	12	F 7	10	24	99	227	02	110	750
Unspecific, n	13 1,72	57 7,52	19	24			93	116	758 100
%	1,/2	7,52	2,51	3,17	13,06	44,46	12,27	15,3	100
Total, n	63	116	118	120	200	399	477	223	1.716
%	3,67	6,76	6,88	6,99	11,66		27,8	13	100

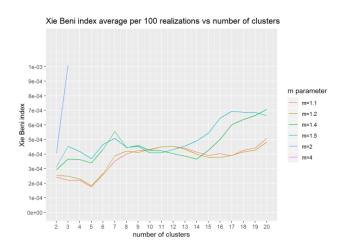
Supplementary table 7. Percentage (**column percentages**) of participants moving from one cluster to another between 6 and 12 years.

						COLUM			
	12-YEAR CLUSTERS								
	Vaculat	Cadionetabolic	Registory	Metropsyc	the stid with	Unde liffic	Death	Ordonit.	√o ^{ta}
6-YEAR CLUSTERS									
Heart and vascular, n	19	4	0	1	1	2	37	12	76
%	30,16	3,45	0	0,83	0,5	0,5	7,76	5,38	4,43
Heart and cogn., n	5	31	2	4	3	0	93	14	152
%	7,94	26,72	1,69	3,33	1,5	0	19,5	6,28	8,86
Neurops. and resp, n	4	5	19	31	12	22	143	29	265
%	6,35	4,31	16,1	25,83	6	5,51	29,98	13	15,44
Eye, n	10	12	5	42	52	4	79	23	227
%	15,87	10,34	4,24	35	26	1	16,56	10,31	13,23
MSK, resp and imm, n	12	7	73	18	33	34	32	29	238
%	19,05	6,03	61,86	15	16,5	8,52	6,71	13	13,87
Unspecific, n	13	57	19	24	99	337	93	116	758
%	20,63	49,14	16,1	20	49,5	84,46	19,5	52,02	44,17
Total, n	63	116	118	120	200	399	477	223	1.716
%	100	100	100	100	100	100	100	100	100

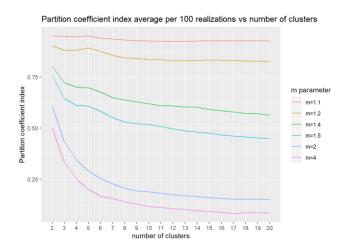
Validation indices at baseline



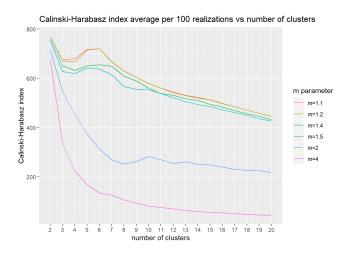
Supplementary figure 1. Fukuyama index across increasing number of clusters at baseline.



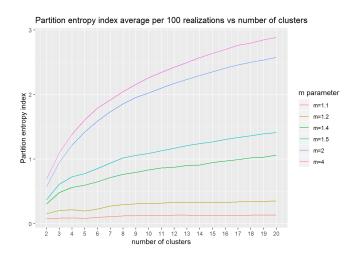
Supplementary figure 2. Xie Beni index across increasing number of clusters at baseline.



Supplementary figure 3. Partition coefficient index across increasing number of clusters at baseline.

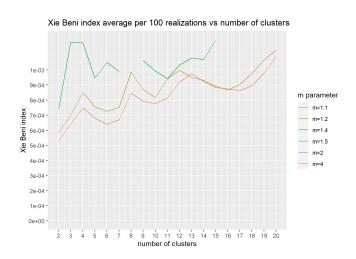


Supplementary figure 4. Calinski-Harabasz index across increasing number of clusters at baseline.

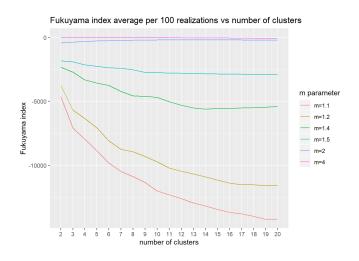


Supplementary figure 5. Partition entropy index across increasing number of clusters at baseline.

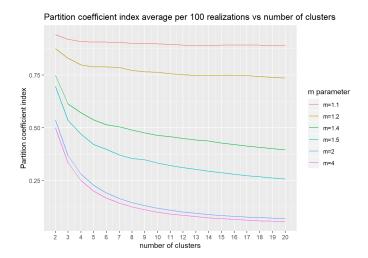
Validation indices at 6 years



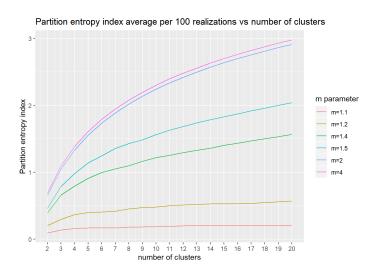
Supplementary figure 6. Xie Beni index across increasing number of clusters at 6 years.



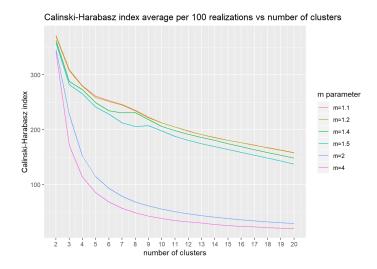
Supplementary figure 7. Fukuyama index across increasing number of clusters at 6 years.



Supplementary figure 8. Partition coefficient index across increasing number of clusters at 6 years.

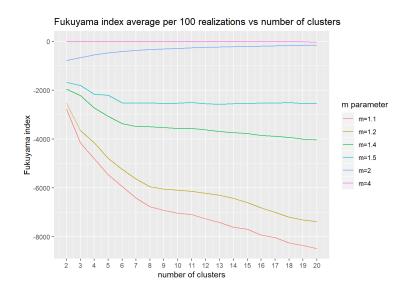


Supplementary figure 9. Partition entropy index across increasing number of clusters at 6 years.

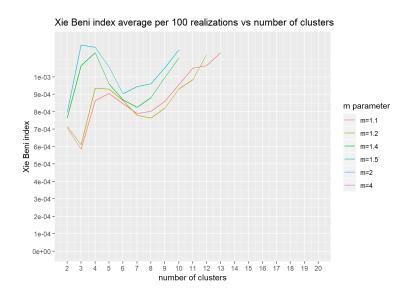


Supplementary figure 10. Calinski-Harabasz index across increasing number of clusters at 6 years.

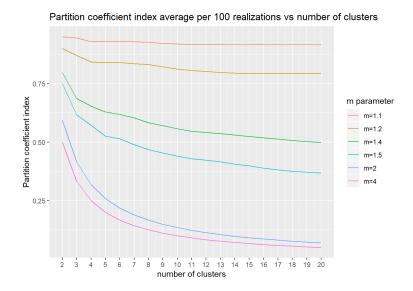
Validation indices at 12 years



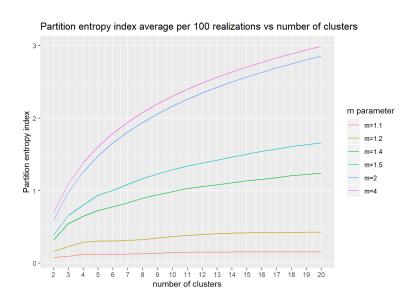
Supplementary figure 11. Fukuyama index across increasing number of clusters at 12 years.



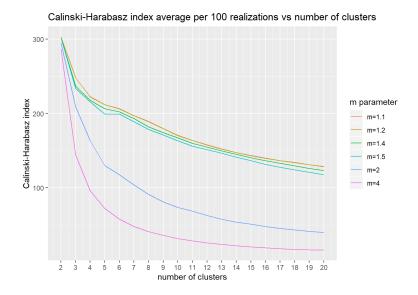
Supplementary figure 12. Xie Beni index across increasing number of clusters at 12 years.



Supplementary figure 13. Partition coefficient index across increasing number of clusters at 12 years.



Supplementary figure 14. Partition entropy index across increasing number of clusters at 12 years.



Supplementary figure 15. Calinski-Harabasz index across increasing number of clusters at 12 years.